

**RECOVERY ACT
ZORTMAN/LANDUSKY MINE
REQUEST FOR QUOTATION - ELECTRICAL SUPPLIES
FOR LANDUSKY BIOLOGICAL TREATMENT PLANT PONDS,
SWIFT GULCH AND ZORTMAN TREATMENT PLANTS**

**REQUESTED BY:
WILLIAM C. MAEHL, P.E.
SPECTRUM ENGINEERING, INC.
1413 4TH AVENUE NORTH
BILLINGS, MONTANA 59101**

**REQUESTED ON BEHALF OF:
MONTANA DEPARTMENT OF
ENVIRONMENTAL QUALITY**

DATED: OCTOBER 29, 2010

QUOTATION DUE DATE: NOVEMBER 8TH, 2010 AT 2 PM MST



RECOVERY ACT - ZORTMAN/LANDUSKY MINE REQUEST FOR QUOTATION FOR ELECTRICAL SUPPLIES DELIVERED TO LANDUSKY MINE SITE

The Montana Department of Environmental Quality (DEQ) jointly oversees reclamation of the Zortman and Landusky mines in co-operation with the USDI Bureau of Land Management (BLM) via a Memorandum of Understanding dated August 2, 2004. The BLM has secured funding for the Zortman/Landusky site through the American Recovery and Reinvestment Act of 2009. The economic stimulus money is being managed by the DEQ through their contract with Spectrum Engineering, Inc. in Billings, Montana.

Equivalent materials may be proposed (when indicated). However, any variance from the stated specifications must be accompanied by a thorough written explanation providing sufficient information on which to base a "best-value" evaluation.

Under this stimulus, three locations will be receiving electrical supplies to control water treatment equipment at the Swift Gulch Treatment Plant, the Biological Treatment Plant and the Zortman Water Treatment Plant all located at the Zortman/Landusky site. The Swift Gulch Treatment Plant will receive the majority of the electrical equipment for system automation and communication with existing onsite radio communication equipment located at the Landusky Water Treatment Plant.

Spectrum Engineering is soliciting firm quotations for the electrical supplies necessary to assemble, integrate and control water treatment equipment at the Swift Gulch Treatment System, Biological Treatment Plant and the Zortman Water Treatment Plant. The water treatment equipment is currently operational and all supplies must be compatible for permanent operation and wiring. To some degree, systems that are already in place will be modified and integrated into the new electrical supplies. In addition, the site has some of the required materials in its warehouse. However, it is our intention to purchase the remainder of the required electrical supplies from a single vendor under this Electrical Request for Quotation as indicated on the attached sheet. All furnished parts and materials will be new.

In order to integrate these systems into current equipment, the Allen Bradley brand items and Rockwell (where specified) may not be substituted. The Allen Bradley items can be excluded from the vendor's quotation and Spectrum Engineering will purchase the Allen Bradley components from the licensed Montana dealer.

Due to project funding limitations, as well as other considerations, Spectrum Engineering Inc. reserves the right to delete any item on the parts and materials bid schedule or to reduce any listed quantity. If such change or changes are necessary, Vendor shall agree to adjust the contract price to reflect the actual delivered quantities at the quoted bid price per item.

Date Advertised: October 29, 2010

Closing Date: November 8, 2010 at 2:00 PM MST (RFQ responses may be mailed to the address listed below, emailed, or hand delivered)

Award Basis: Best Value for the State of Montana DEQ

Award Date: November 9, 2010

Delivery Date: 30 calendar days from date of notice of award (unless specifically specified to be longer on the Bid Quotation Sheet)

Terms: Materials delivered FOB to the Landusky site with billing adjusted to reflect actual quantities delivered at the quoted bid price per specified item. All price quotes shall be honored for 60 days following the Closing Date of this RFQ.

Engineering Mgr: Bill Maehl
Telephone: 406-259-2412 ext. 3
Email Address: maehl@spectrum-eng.com
Mailing Address: Spectrum Engineering, 1413 4th Avenue North, Billings, MT 59101

Agency: Montana DEQ
Project Mgr: Wayne Jepson
Telephone: 406-444-0529

Questions: Bidders will be allowed a period of 3 working days from October 29th to November 3rd, 2010 in which to submit questions via e-mail or by mail. Spectrum will provide responses to all questions by November 5th, 2010. However, Spectrum shall reserve the sole right to determine the adequacy of any response and to decline to answer any question. Spectrum will distribute copies of all questions and responses to all bidders via email.

Deliverables: See attached Bid Quotation sheet (parts and materials bid schedule). Equipment is available at the Landusky site to assist with unloading and storage.

Cost Proposal Fill out and submit separate item price quotes for each item on the attached Electrical Bid Quotation Sheet. The bid schedule includes a separate lump sum price of delivery to the Landusky Mine Site. Supply percentage of USA materials for each item category and indicate whether or not product is made in USA on the bid schedule. Manufacturer and complete product specifications shall be supplied as attachments to the proposal. Alternatives with supporting documentation can be bid on a separate bid schedule.

Proposal
Evaluation:

Name, address, contact information
Manufacturers of all parts and materials
Product specifications
Warranties
Price

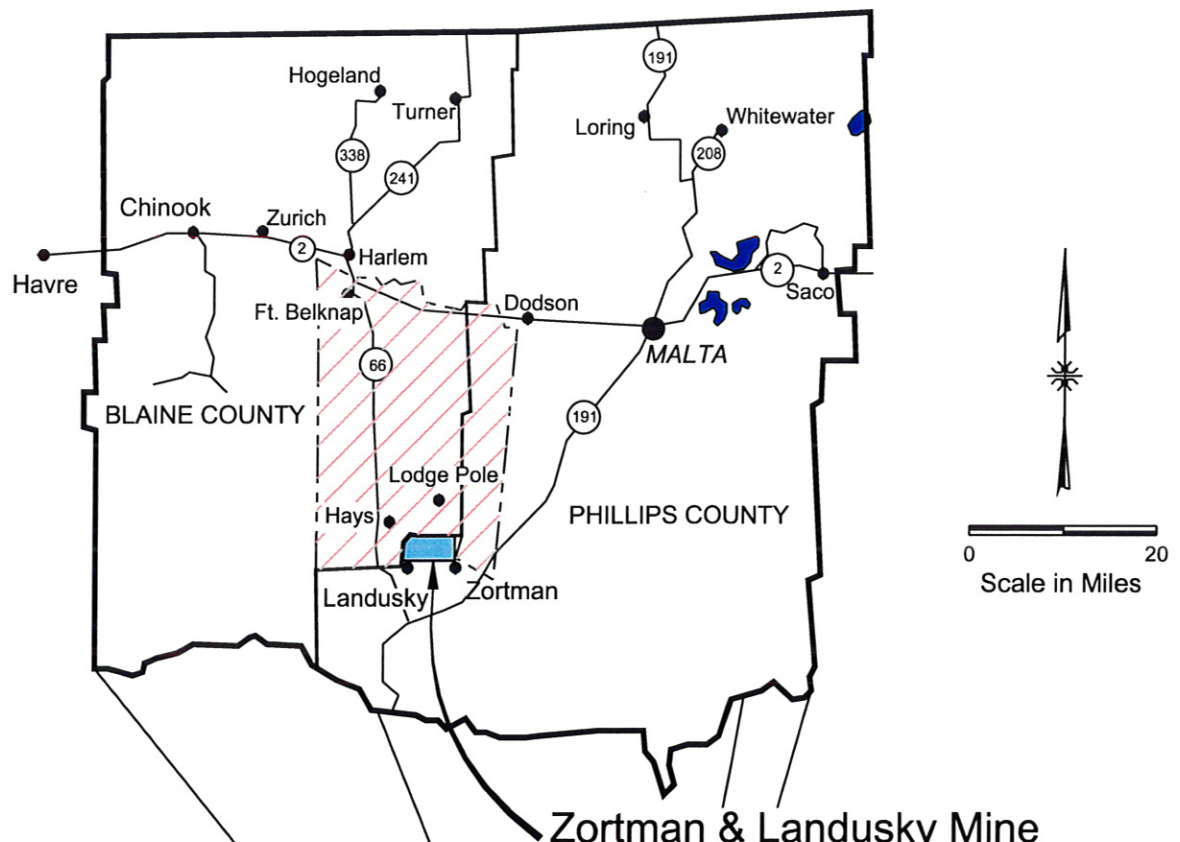
Indicate the percentage of USA materials used (preference given to the highest percentage of USA materials.)
Spectrum Engineering reserves the right to select the Proposal which, in their opinion, offers the Best Value to the State of Montana.

Payment Terms:

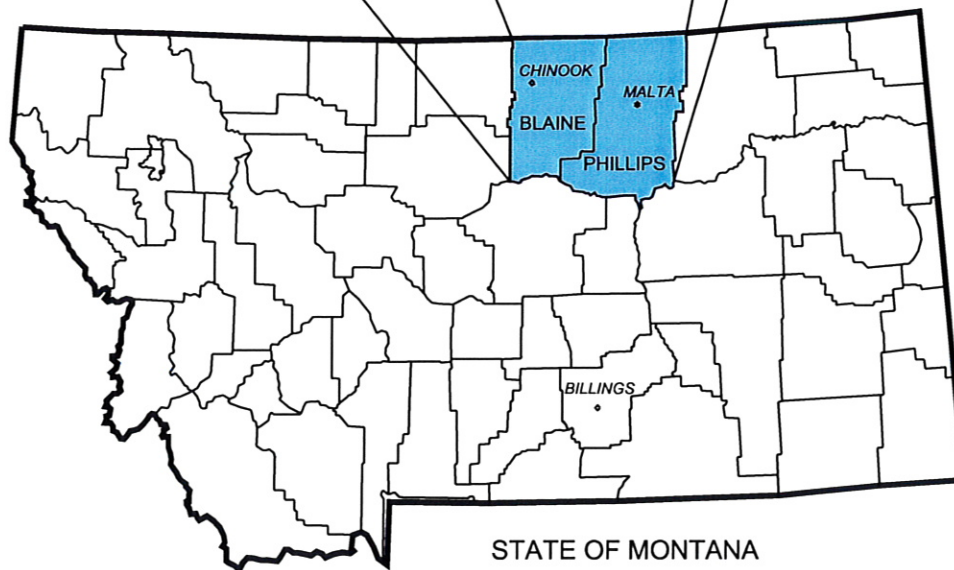
Successful bidder shall supply written invoice(s) with each delivery. Payment shall be made by Spectrum Engineering within 30 days of the date of the invoice.

Attachments:

1. General Location Map
2. Electrical Bid Quotation Sheet



Zortman & Landusky Mine
Reclamation Project



STATE OF MONTANA

GENERAL LOCATION MAP

ZORTMAN AND LANDUSKY ELECTRICAL BID QUOTATION SHEET

PLC Equipment						PROPOSED VENDOR	DELIVERY DATE	PRICE QUOTED
1	1	EA	PLC Processor	Allen Bradley-Do Not Substitute	1766-L32AWA	Allen Bradley		
1	1	EA	PLC Processor	Allen Bradley-Do Not Substitute	1763-L16AWA	Allen Bradley		
2	1	EA	PLC Discrete Input Module	Allen Bradley-Do Not Substitute	1762-IA8	Allen Bradley		
3	1	EA	PLC Discrete Output Module	Allen Bradley-Do Not Substitute	1762-OW16	Allen Bradley		
4	4	EA	PLC Analog Input Module	Allen Bradley-Do Not Substitute	1762-IF4	Allen Bradley		
5	1	EA	PLC Analog Output Module	Allen Bradley-Do Not Substitute	1762-OF4	Allen Bradley		
6	1	EA	PanelView Touchscreen	Allen Bradley-Do Not Substitute	2711P-T15C4A2	Allen Bradley		
7	1	EA	Upgrade existing RSVIEW32 works software from 300 tags to 1500 tags	Rockwell-Do Not Substitute	9301-2SE2300	Rockwell		

All

SUBTOTAL PLC RELATED EQUIPMENT

\$

ZORTMAN AND LANDUSKY ELECTRICAL BID QUOTATION SHEET

Electrical Equipment						PROPOSED VENDOR	DELIVERY DATE	PRICE QUOTED
Item	Number	Units	Description	Vendor	Part Number			
1	150	EA	Cord Grip, 1/2" NPT, To Fit Cable Diameter .375 to .450; w/sealing gasket and locknut	Crouse-Hinds or Approved Equal	CGB194SG			
2	1	PKG/1000	Cable Tie 18lb 8" Ultraviolet Resistant Black Nylon with Stainless Steel Locking Device Bulk Pack	T&B or Approved Equal	TY232MX			
3	1	BX/100	Lag Bolts, 3/8" X 3", Zinc Plated Steel					
4	1	BX/100	Flat Washers, 3/8", Zinc Plated Steel or Stainless					
5	10	EA	Circuit Breaker, to fit Square D Load Center QO44M200RB, 1 Pole, 15 Amp	Square D-Do not Substitute	QO115VH	Square D		
6	2	EA	Load Center (Panelboard), 3 Phase, 4 wire, 480 VAC, 100 Amp, 30 pole (with 100 Amp main breaker) (NEMA 1) (Surface Mount)					
7	15	EA	Circuit Breaker, 3 PH, 15 Amp (to fit above load center) (minimum 75deg C rating) (include lockout accessory for each bkr)					
8	1	EA	Circuit Breaker, 3 PH, 50 Amp (to fit above load center) (minimum 75deg C rating) (include lockout accessory for each bkr)					
9	1	EA	Disconnect Switch, Fused, 3 Phase, 600 VAC, 100 Amp, NEMA 3R (w/100 amp fuses) w/neutral/ground lug kit) (W/ 1-1/2" hub on top	Cutler Hammer or Approved Equal	DH363FRK			
10	20	EA	Servit type Post Split Bolt Connectors, 3/8" X #6AWG					
11	5	EA (10 feet stick)	Conduit, IMC, 1-1/2"					
12	25	EA (10 feet stick)	Conduit, IMC, 3/4"					
13	6	EA	3 position switch	Allen Bradley or Approved Equal	800T-J2A			
14	6	EA	Ledgend Plates for 3 position switches - Hand, Off, Auto	Allen Bradley or Approved Equal	800T-X511			
15	1	EA	Conduit Fitting, LR, 1-1/2", with cover & gasket					
16	1	EA	Conduit Fitting, LL, 1-1/2", with cover & gasket					
17	1	EA	Conduit Fitting, LB, 1-1/2", with cover & gasket					
18	30	EA	Conduit Locknuts, 1-1/2"					
19	12	EA	Conduit Bushing, Grounding/Bonding, 1-1/2"					
20	12	EA	Conduit Bushing, Plastic, 1-1/2"					
21	1500	FT	#14 AWG, TC-ER, 4 Conductors, Stranded Wire. Must be rated 'Sunlight Resistant' and 'Direct Burial' and have overall shield	Anixter or Approved Equal	2A-1404S			
22	1500	FT	#18 AWG, TC-ER, 2 shielded pair Conductors, Stranded Wire. Must be rated 'Sunlight Resistant' and 'Direct Burial' and have overall shield	Anixter or Approved Equal	2AS-1802SPOS			
23	250	FT	#6 AWG, Bare, 1 Conductor, Stranded Bare Copper Wire (grounding & bonding purpose)					
24	500	FT	#18 AWG, TC-ER, 3 Conductors, Shielded, Stranded Wire	Anixter or Approved Equal	2A-1803S			
25	150	FT	#2 AWG, THWN, 1 Conductor, Stranded Copper Wire					

ZORTMAN AND LANDUSKY ELECTRICAL BID QUOTATION SHEET

Electrical Equipment (Continued)						PROPOSED VENDOR	DELIVERY DATE	PRICE QUOTED
Item	Number	Units	Description	Vendor	Part Number			
26	9	EA	Cable Tray, 9" Rung Spacing, 6" Wide, Alum	B-LINE or Approved Equal	24A09-06-120			
27	4	EA	Cable Tray Radium, 90d, Horizontal 6", Alum	B-LINE or Approved Equal	4A-06-90HB12			
28	2	EA	Cable Tray Tee, Horizontal 6", Alum	B-LINE or Approved Equal	4A-06-HT12			
29	50	EA	Cable Tray Clamp/Guide, 2-1/4"	B-LINE or Approved Equal	9ZN-1208			
30	95	EA	Strut, 1-5/8 X 1-5/8, Slotted, Galv, 10'	B-LINE or Approved Equal	B22SHGALV10			
31	30	EA	Cantilever Bracket, 12"	B-LINE or Approved Equal	B409-12-ZN			
32	70	EA	Channel Beam Clamps	B-LINE or Approved Equal	B441-22			
33	26	EA	Post Base, Square, For B22	B-LINE or Approved Equal	B280SQ-ZN			
34	30	EA	Corner Bracket, 4 Hole, Zinc	B-LINE or Approved Equal	B115-ZN			
35	300	EA	Strut Twirl Nuts, 3/8-16	B-LINE or Approved Equal	TN228-ZN			
36	300	EA	Bolts, 3/8-16 X 1-1/4", Zinc Plated	B-LINE or Approved Equal	8 X 1 1/4 HHCS ZN			
37	300	EA	Washers, Flat, 3/8, Zinc Plated	B-LINE or Approved Equal	3/8 FW ZN			
38	300	EA	Washers, Lock, 3/8, Zinc Plated	B-LINE or Approved Equal	3/8 LW ZN			
39	5	EA	Bulletin 100-C Contactor, 3-Pole, Rated 480VAC, 5 Amp Contacts 120VAC coil, N.O Aux Contacts	Allen Bradley-Do not Substitute	100-C09A10	Allen Bradley		
40	5	EA	Bulletin 193 E1 Plus Solid State Overload Relay, Trip Range 0.1 to 0.5 Amps	Allen Bradley-Do not Substitute	193-EE-A-B	Allen Bradley		
41	1	EA	Bulletin 193 E1 Plus Solid State Overload Relay, Trip Range 0.2 to 1	Allen Bradley-Do not Substitute	193-EE-B-B	Allen Bradley		
42	1	EA	24 Vdc Power Supply - 1.3 amp output minimum	Allen Bradley or Approved Equal	1606-XLP30E			
43	175	EA	Terminal Blocks	Allen Bradley or Approved Equal	1492-J4			
44	50	EA	Fused Terminal Blocks	Allen Bradley or Approved Equal	1492-H4			
45	4	EA	Din Rail - 1 meter lengths					
46	1	EA	Enclosure and Panel (36w x 36t x 8d)	Hoffman or Approved Equal	SD-3636x, CP3636			
47	1	EA	UHF Data Radio - 450 to 470 MHz, 5 watt	Teledesign or Approved Equal	TS4000			
48	1	EA	Yagi Antenna					
49	1	EA	Data Radio Antenna Lightning Surge Suppressor	Teledesign or Approved Equal	TS0169-PP			
50	1	EA	Data Radio Amplifier - approximately 35 watts, 24 Vdc powered	Teledesign or Approved Equal	TS0205			
51	1	EA	Data Radio and Amplifier Power Supply - 13.6 to 13.8 VDC, 10 amps minimum	Teledesign or Approved Equal	TS0135			
52	1	Lot	Cable and connectors as needed to connect data radio to Yagi Antenna - Antenna located approximately 40 feet from Radio					
53	3	EA	Wire Channel with Cover - 2"x3"x6'	Panduit or Approved Equal				

ALL

SUBTOTAL ELECTRICAL RELATED EQUIPMENT

\$

ZORTMAN AND LANDUSKY ELECTRICAL BID QUOTATION SHEET

Instruments						PROPOSED VENDOR	DELIVERY DATE	PRICE QUOTED
Item	Number	Units	Description	Vendor	Part Number			
1	1	EA	Lime Mix Tank High Level Switch	SMD Fluid Controls or Approved Equal	FS22-1000			
2	1	EA	Lime Mix Tank Low Level Switch	SMD Fluid Controls or Approved Equal	FS22-1000			
5	4	EA	RCTS High Level Switches	SMD Fluid Controls or Approved Equal	FS22-1000			
6	1	EA	Reactor Tank High Level Switch	SMD Fluid Controls or Approved Equal	FS22-1000			
7	1	EA	Reactor Tank Low Level Switch	SMD Fluid Controls or Approved Equal	FS22-1000			
8	3	EA	Ultra Sonic Level Sensor	Endress + Hauser or Approved Equal	FMU40			
9	2	EA	Propane tank level transmitters					
10	1	EA	Spill Indicator Switch	SMD Fluid Controls or Approved Equal	FS22-1000			

All

SUBTOTAL INSTRUMENT RELATED EQUIPMENT

\$

TOTAL PRICE BID

% AMERICAN MADE

All

SUBTOTAL PLC RELATED EQUIPMENT

\$

All

SUBTOTAL ELECTRICAL RELATED EQUIPMENT

\$

All

SUBTOTAL INSTRUMENT RELATED EQUIPMENT

\$

All

SUBTOTAL PARTS DELIVERY TO LANDUSKY MINE SITE

\$

GRAND TOTAL PRICE BID

\$